



USPTO-1449

**U.S. Department of Commerce
Patent and Trademark Office**

Application Number	09/464,902
Filing Date	December 16, 1999
First Named Inventor	William C. Olson et al.
Art Unit	1648
Examiner Name	Emily Le
Attorney Docket No.	2048/57906-A/JPW/AJD

INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

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Examiner Initials ¹	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document

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elle	1	WO/9745543 A	12-04-1997	Combadiere, Chrisophe et al.	
elle	2	WO/9747318 A	12-18-1997	Allaway, Graham P. et al.	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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EXAMINER SIGNATURE <i>Emily Le</i>	DATE CONSIDERED 11/27/06
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Applicants: William C. Olson, et al.
Serial No.: 09/464,902
Filed: December 16, 1999
Exhibit A

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57906-A/JPW/SHS/GJC 09/464,902

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ele	A	Allaway, G.P., K.L. Davis-Bruno, B.A. Beaudry, E.B. Garcia, E.L. Wong, A.M. Ryder, K.W. Hasel, M.C. Gaudin, R.A. Koup, J.S. McDougal and P.J. Maddon. 1995 Expression and characterization of CD4-IgG2, a novel heterotetramer that neutralizes primary HIV type 1 isolates. AIDS Res Hum Retroviruses 11:533-539. (Exhibit 1);
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	D	Berger, E.A. 1997. HIV entry and tropism: the chemokine receptor connection. AIDS 11 (suppl A): S3-S16 (Exhibit 4);
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	G	Chan, D.C. and P.S. Kim. 1998. HIV entry and its inhibition. Cell 93:681-684 (Exhibit 7);
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K	Donzella, G.A., D. Schols, S.W. Lin, J.A. Este, K.A. Nagashima, P.J. Maddon, G.P. Allaway, T.P. Sakamar, G. Henson, E.D. Clercq and J.P. Moore. 1998 AMD3100, a small molecule inhibitor of HIV-1 entry via the CXCR4 co-receptor. Nat. Med. 4:72-77 (Exhibit 11);
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M	Doranz, B.J., Z.-H. Lu, J. Rucker, T.-Y Zhang, M. Sharron, Y.-H Cen, Z.-X. Wang, H.-H Guo, J.-G Du, M.A. Accavitti, R.W. Doms and S.C. Peiper. 1997. Two distinct CCR5 domains can mediate co-receptor usage by human immunodeficiency virus type 1. J. Virol. 71:6305-6314 (Exhibit 13);
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O	Hill, C.M., D. Kwon, M. Jones, C.B. Davis, S. Marmon, B.L. Daugherty, J.A. DeMartino, M.S. Springer, D. Unutmaz and D.R. Littman. 1998. The amino terminus of human CCR5 is required for its function as a receptor for diverse human and simian immunodeficiency virus envelope glycoproteins. Virology 248:257-371 (Exhibit 15);

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X	Wu, L., G. LaRosa, N. Kassam, C.J. Gordon, H. Heath, N. Ruffing, H. Chen, J. Humblis, M. Samson, M. Parmentier, J.P. Moore and C.R. Mackay. 1997. Interaction of chemokine receptor CCR5 with its ligands: multiple domains for HIV-1 gp120 binding and a single domain for chemokine binding. J. Exp. Med. 186:1373-1381 (Exhibit 24);
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AB	Choe, H., M. Farzan, Y. Sun, N. Sullivan, B. Rollins, P.D. Ponath, L. Wu, C.R. Mackay, G. LaRosa, W. Newman, N. Gerard, C. Gerard, and J. Sodroski. The Beta-Chemokine Receptors CCR3 and CCR5 Facilitate Infection by Primary HIV-1 Isolates. Cell 85:1135-1148 (Exhibit 28)

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AC	Doranz, B.J., J. Rucker, Y. Yi, R. Smyth, M. Samson, S.C. Peiper, M. Parmentier, R.G. Collman, and R.W. Doms. A Dual-Tropic Primary HIV-1 Isolate That Uses Fusin and Beta-Chemokine Receptors CKR-5, CKR-3, and CKR-2b as Fusion Cofactors. Cell 85:1149-1158 (Exhibit 29)
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C. Le

DATE CONSIDERED

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
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A 	Fradd, B., M.E. McCarthy. 1989. AIDS Vaccines: An Investor's Guide by Shearman Lehman Hutton. Page 10 (Fig. 2) (Exhibit 1).
B 	De Rossi, A., M. Pasti, F. Mammano, M. Panozzo, M. Dettin, C. Di Bello and L. Chieco-Bianchi. 1991. Synthetic Peptides from the Principal Neutralizing Domain of Human Immunodeficiency Virus Type 1 (HIV-1) Enhance HIV-1 Infection through a CD4-Dependent Mechanism. Virology 184:187-196 (Exhibit 2).

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Exhibit A

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Examiner Name Emily Lee
Attorney Docket No. 57906-A/JPW/AG

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elle		WO1995/16879	06-22-1995		
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		WO1997/37005	10-27-1997		
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Applicants: William C. Olson
 and Paul J. Maddon
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 Exhibit C

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Form PTO-1449 SEP 19 2006 U.S. Department of Commerce Patent and Trademark Office		Application Number 09/464,902 Filing Date December 16, 1999 First Named Inventor Olson et al. Art Unit 1648 Examiner Name Emily Lee Attorney Docket No. 57906-A/JPW/AG			
INFORMATION DISCLOSURE STATEMENT (Use separate sheets if necessary)					
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Applicants: William C. Olson
 and Paul J. Maddon
 U.S. Serial No. 09/464,902
 Filed: December 16, 1999
 Exhibit C

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